FIG. 1

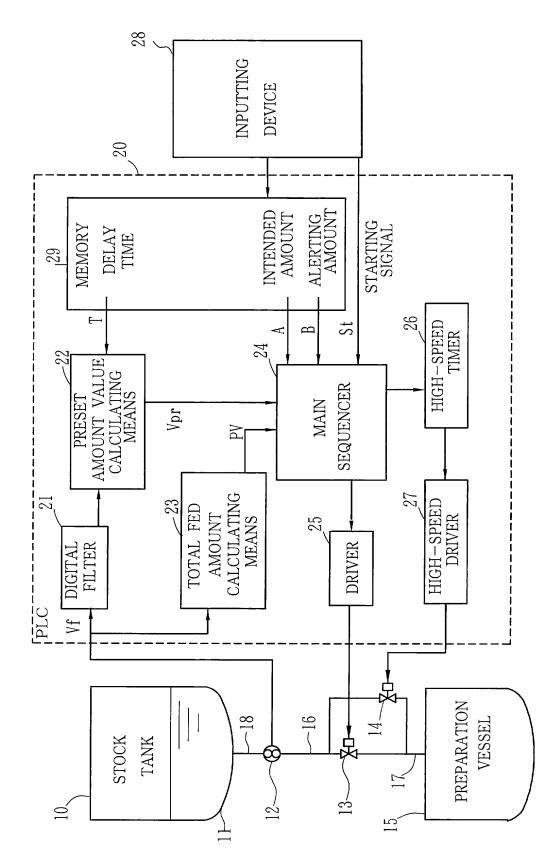


FIG. 2 START INITIALIZATION READOUT OF DELAY TIME T. INTENDED AMOUNT A AND ALERTING AMOUNT B ON DISPLAY **UPDATE** READOUT DATA ARE CORRECT? NO YES IS STARTING SIGNAL INPUT? NO YES SLOW-SCANNING A>B? PROCESSING AT NO YES ONE SECOND OPENING BOTH LARGER **OPENING** INTERVALS **SMALLER** DIAMETER DIAMETER VALVE VALVE AND SMALLER DIAMETER VALVE CALCULATING PV  $PV \ge (A - B)$ ? NO YES CLOSING LARGER DIAMETER VALVE CALCULATING PV, Vpr

 $A \leq (PV + Vpr + Vr)$ ?

STARTING TIMER SET FOR At

YES

END )

IS TIME UP?

CLOSING SMALLER DIAMETER VALVE

FAST-SCANNING-PROCESSING AT

0. 01 SECOND

**INTERVALS** 

YES
CALCULATING Δt
Δt=(A-PV-Vpr)/Vr

NO

ΝŌ

FIG. 3

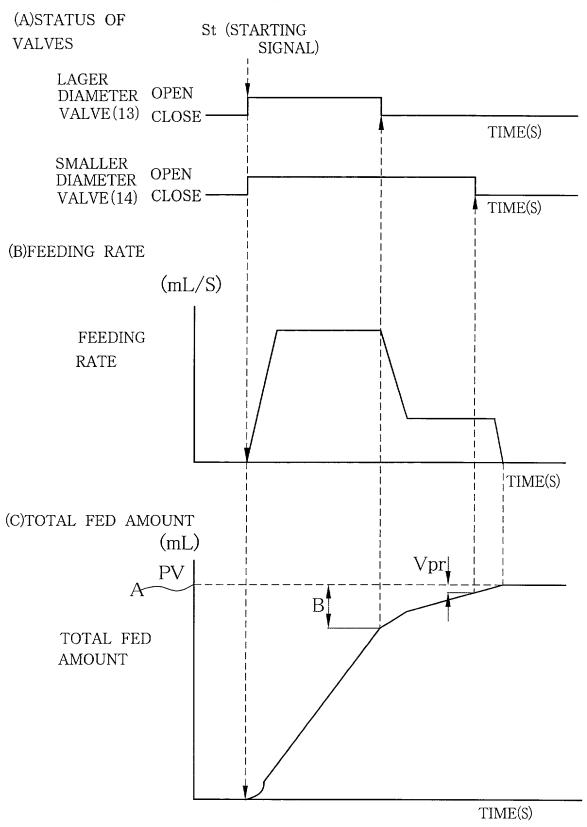


FIG. 4

## (A)STATUS OF VALVES

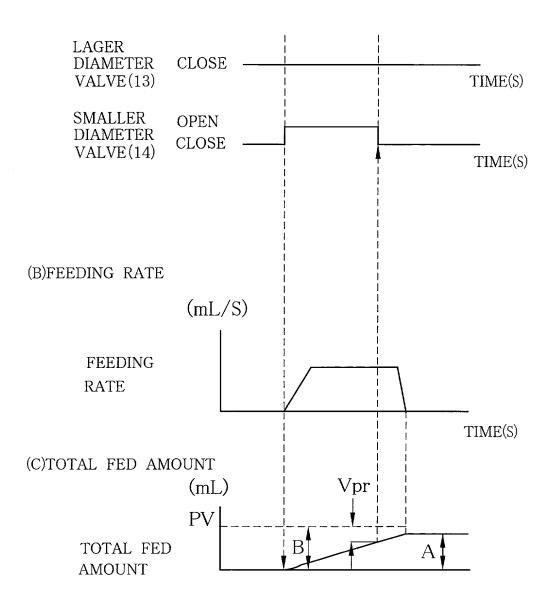


FIG. 5

